Revision Date: 9/13/2011

SAFETY, HEALTH, AND ENVIRONMENTAL MANAGEMENT PROTOCOL FOR FIELD ACTIVITIES

U.S. Environmental Protection Agency Research Triangle Park, North Carolina

PURPOSE

To ensure adequate review of safety issues and equipment to identify potential hazards and to verify establishment of contact with facility safety representative(s).

This protocol assumes that EPA personnel and their representatives will perform their facility visit escorted by a facility representative. This representative will be cognizant of the facility safety and emergency procedures, will provide to the EPA staff and representatives information on the essential facility safety and emergency procedures, and will remain with the EPA team while on site.

PART I. PROJECT INFORMATION

Project Title: An epidemiologic health study of manganese (Mn) exposure in East Liverpool, Ol	Jio B
Dates/Duration of Field Activity: November 3- November 6, 2011	
Principal Investigator (PI): Danelle T. Lobdell	
Laboratory, Division, Branch: NHEERL/EPHD/EB	F
Phone: Office: 919-843-4434 Site (or Cell): 919-270-8330	F
Field Site Name/Address: East Liverpool Motor Lodge, East Liverpool, OH	
Site Type: hotel/motel (i.e., manufacturing plant, roadside, woods, contamination cleanup site, lake, etc.) OMIS Task # (if applicable):	***
OMIS Title (if applicable):	2
National Environmental Policy Act (NEPA) Requirements	
Will the project encounter / impact endangered species (plants / animals)? Yes No Will the project encounter / impact any historic sites (burial grounds, monuments, etc.)? Yes Will the project involve drilling, soil samples, or any soil impact? Yes No Will the project involve any potential uncontrolled impacts to water / air and/or discharges appro	paching regulatory limits?
PI Signature: Danelle Lobdell Date: 10/3/2011 PI Signature: (Principal Investigator must be an EPA employee) APPROVALS Branch Chief: Date: October 7,	
SHEM Protocol for Field Activities 1	Revised 9/11

PART II. PROJECT INFORMATION

Detailed Study Description (Research or Monitoring Protocol should be attached if applicable):

This project is a cross-sectional study examining air Mn exposure and neurologic health effects. The researchers are only on site as observers and will not be collecting data. The site is at a local hotel central to where study participants live and can easily access for study protocol. The total study is for 4 days November 3-6, 2011. Health and clinical data as well as biological samples will be collected.

B. Personnel (List EPA personnel only)

NOTE: Each signatory certifies the statement below:

"I have reviewed this Safety Health and Environmental Management Protocol for Field Activities and agree to comply with all procedures and protective measures outlined in the protocol."

Name	Signature	*Medical Monitoring	*Field Activity Training	*First	*AED / CPR	*HAZWOPER
Danelle T. Lobdell	Danelle Lobdell					
B. Michael Ray	8. mula loker	[
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	A Victoria					

^{*}Indicate if personnel are: 1) Participants in the Occupational Medical Surveillance (Medical Monitoring) Program and 2) Up-to-date in Field Activity Safety Training and/or any other training.

If no, provide explanation in Comments section below.

Comments

This project is a cross-sectional study examining air Mn exposure and neurologic health effects. The researchers are only on site as observers and will not be collecting data. The site is at a local hotel central to where study participants live and can easily access for study protocol. The total study is for 4 days November 3-6, 2011. Health and clinical data as well as biological samples will be collected.

Address:	2340 Dresden Ave., East Liverpool, OH 43920	
Is this site a remote	or an urban setting 🔳 ?	
	ocation, include a map and global positioning system or longitude/latitude coordinates.	

	Identify the type(s) of environments the study will be conducted in: Mobile Laboratory Non-EPA Laboratory Terrestrial Ecology Aquatic Ecology Industrial Site Other Other	
D.	Contact Personnel for Field Site	
	Contact Name: Rosemarie Bowler, Ph.D., M.P.H.	
	Title: Study coordinator (under contract) Phone #: 510-236-5599	
E.	Government Vehicle to be Taken? Yes No	
	If yes, First Aid Kit? Yes No Fire Extinguisher? Yes No Other Supplies? Yes No If yes, list:	
F.	Copies of Forms (Motor Vehicle Accident, Injury/Illness) Available? Yes No	

PART III. HAZARD INFORMATION

A. Potential Hazards Encountered during Field Study

Task	Hazard Category	Hazard	Controls	PPE
Callection of blood,	&iological	Biological - Human Blood / Fluids	l _{ex}	Neoprene
toenalis and hair	The state of the s	Districting Street Section 1 Literals		Lab Goat
samples. NOTE: The contractor will collect and				Eye
process.		50-00-00-00-00-00-00-00-00-00-00-00-00-0		Other
			Choose an item.	Hand
	Choose an item.	Choose an item.	Lineose sa kem.	Body
				Eye
		veneral de la companya de la company	**************************************	Other
**************************************				Hand
	Choose an item. Chi	Choose an item:	Choose an item;	Body
				Eje
				Öliver
				Hand
	Choose an item.	Choose an item.	Choose an item.	Body
				Eye
	Ne.			Ope
				Harvi
	Choose an item.	Choose an item.	Choose an item.	Body
				Eye
				Other
				Hand
W/W/W/W/W/W/W/W/W/W/W/W/W/W/W/W/W/W/W/	Choose an item.	Croose an item.	Choose an item.	Body

Task	Hazard Category	, Hazard	Controls	PPE
	Accessory to the	Perilina and the second		Eye
				Ottrer
	Choose an item.	Choose an item.	Choose an item.	Hand
	0.00000 00.0000	1 0 1 0 0 0 0 1 1 0 0 1 1 1 1 1 1 1 1 1	Total an arm.	Body
	V. Carana			Eye
				Other
	Choose an item.	Chopse an item.	Choose an item.	Hand
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Losson at the same	(SEPTIME 4) TREST.	Body
	na a a a spirajulu			Eye
				Other

^{*} When respirator is checked, personnel using respirators must have been properly trained and fitted for the respirator within the past twelve months. Individuals using a respirator must be enrolled in the Respiratory Protection Program to remain eligible to wear respiratory protection equipment of any kind.

1.	Identify any locations on the site that EPA personnel are restricted from entering. (Note: Employees are a	noi
	authorized to enter confined spaces.)	

N/A

	Tetanus
L	Hepatitis A (wastewater)
	Hepatitis B (blood, body fluids)
	Other
	None required

High (Frequent climbing, lifting)

В.

Low (Office work)

Toxicity of Materials to be Used

Moderate (Frequent walking)

1. Will any chemical materials be used that are considered hazardous agents by the ORD SHEM Office?

A hazardous agent, as defined by the ORD SHEM Office, a hazardous agent exhibits one or more of these characteristics:

- Has an LD50 (oral, rat) < 50 mg/kg body weight
- Has an inhalation LC50 toxicity (rat) < 2 mg/liter or < 200 ppm
- Has a dermal LO50 toxicity (rabbit) < 200 mg/kg
- Has an occupational exposure limit (OSHA, NIOSH or ACGIH) ≤ 1 ppm
- Causes teratogenic or mutagenic effects (in humans or animals)
- Is an infectious biological agent (as defined by CDC and/or NiH)
- Is an explosive or violently reactive agent (shock sensitive, peroxide forming, and/or incompatible with moisture/air)
- Is a sensitizing agent
- Nanoparticle research involving the use or manufacture of particles (Bucky balls, nano tubes, quantum dots, etc.) that is not contained in solution and/or with the possibility of airborne exposure.
- Is an agent whose toxicological characteristics are unknown, but it is suspected of meeting one of the above criteria

*EXCEPTION: Standards ordered from vendors in sealed vials or ampoules that are used directly in laboratory instrumentation are exempt even if they meet the above criteria.

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Ye	s No	If yes, List in the table below:

C. Hazardous Agent(s):

Provide the following information for any hazardous agent that will be taken into the field by EPA personnel.

*Chemical Name	CAS No.	Physical Form	Quantity Taken in Field	Condition / Method of Storage and Transport	DOT Labeling Requirements (Contact ORD SHEM Office for assistance at 1-2613)
		Choose an item.			
	-	Choose an item.			
**************************************		Choose an illem.		and the second s	
		Choose an item.			
		Choose an item:			
		Choose an item.			
***************************************		Choose an item.			
		Choose an item.			
		Choose an item.			
		Choose an item,			

^{*}Attach a copy of Material Safety Data Sheet (MSDS) for each chemical listed above, or a copy of information found in NIOSH Registry of Toxic Effects of Chemical Substances

D. Hazardous Waste Disposal

(Fill out the following information <u>only if</u> you are taking materials into the field and anticipate generating waste materials that <u>must</u> be returned to an EPA facility.)

Type of Waste Generated	Waste Volume	Time Period (e.g., weekly solvent waste)	Any unused stock? (<u>yes</u> or <u>no</u>)	If unused stock, will it be <u>kept</u> on site or <u>disposed of</u> ?
N/A				

PART IV. EMERGENCY PROCEDURES

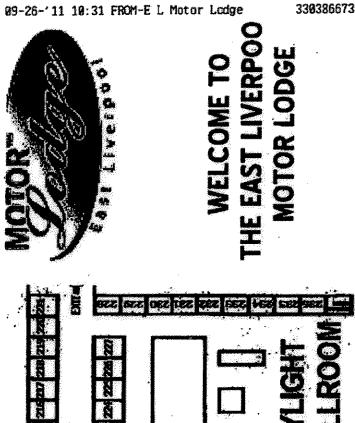
This information must be coordinated with representatives from the field site. This refers to the emergency procedures dictated by the site personnel.

A. In the event of an accident or chemical/biological spill:

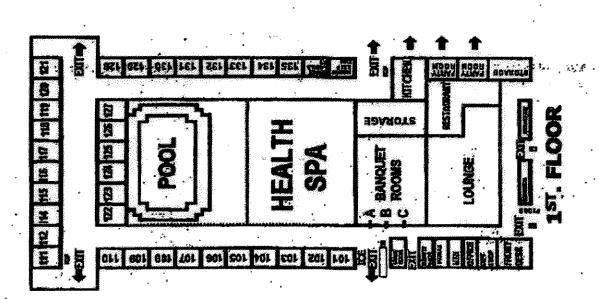
Describe procedures in event of personal exposure (inhalation, ingestion, inoculation, asphyxiates, flammables, corrosives, etc.):

The collection of biologic samples will be conducted by contractor. EPA personnel should not have contact. In the event of an accident exposure to biological samples, mainly blood, the area on the body exposed should be washed thoroughly with copious amount of water and soap. If exposure occurred where there is a break in the skin or injury occurred through puncture (e.g., needle injury), then the employee is to go to local Urgent Care or

	6 0. †	procedures and monitoring methods to assure decontamination.
		Note, this activity will be conducted by contractor. EPA personnel should have not contact nor should they be involved with any decontamination procedures.
	3.	Describe the procedures for emergency evacuation of the facility.
		There are clearly marked exit signs listed for the facility (see attached diagram). In the event of an emergency, all personnel are to leave at the designated emergency exits.
В.	In:	the event of a medical emergency: Emergency phone number (Is 911 available or does facility have its own medical emergency number)? 911 is available
	2.	is response by EMS available? Yes No
	3.	Include the hospital name, address, phone number and location relative to the site if EMS crew will not be available to provide emergency transportation. Hospital: East Liverpool City Hospital
		Address: 425 W. Fifth Street, East Liverpool, OH 43920 Phone #: 330-385-7200
'Piea	ise a	ttach (copy and paste) map or directions for first response hospital closest to site:
	4,	Is first response hospital equipped to handle: Burns? Chemical splashes (skin, eye, respiratory)? Chemical burns? Severe trauma? Insect stings, bites, etc.
		If the answer to any of the above is no, designate an alternate facility that can handle these types of injuries. Hospital: Address: Phone #:



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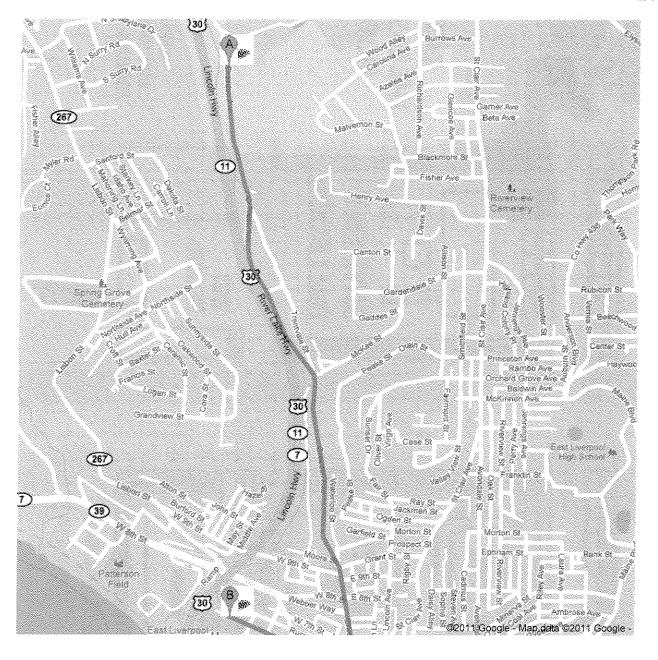


330) 386-5858 / 888-454-7694 EAST LIVERPOOL, OH 43920 2340 DRESDEN AVE



Directions to East Liverpool City Hospital East Liverpool, Ohio - (330) 385-7200 2.0 mi – about 6 mins







East Liverpool Motor Lodge

2340 Dresden Avenue, East Liverpool, OH 43920-9007 - (330) 386-5858

 Head south on Dresden Ave toward Pauls Ln About 1 min go 0.4 mi total 0.4 mi

7 2

2. Slight right to stay on **Dresden Ave** About 4 mins

go 1.3 mi total 1.6 mi

→ 3. T

3. Turn right onto **W 6th St** About 2 mins go 0.4 mi total 2.0 mi



East Liverpool City Hospital

East Liverpool, Ohio - (330) 385-7200

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

Map data ©2011 Google

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